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MONTHLY REPORT

1 September - 30 September 1956

RESEARCH AND DEVELOPMENT BRANCH  
ENGINEERING DIVISION

EXTERNAL PROJECTS SECTION

1. PROJECTS AND ACTIVITIES

2021 MINIATURIZED AGENT VFO

This program has been reactivated and test specifications have been written in rough form. Work is continuing in smoothing the rough drafts of the development and test specifications.

2035A GAS ABSORPTION AND SILENCING UNIT, GA-2

This project has been cancelled and action has been taken to have the residual inventory resulting from the development contract returned to the Agency for examination and storage.

2037 HIGH SPEED AGENT AND SUB-BASE COMMUNICATIONS SYSTEM, RS-16

The development and fabrication of the new RS-16 units are progressing at a satisfactory rate. The first prototype unit is approximately 80 per cent completed. 25X1A

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[REDACTED]

This amendment will provide for a stainless steel reinforcement of each of the bottom four corners of the EC-4 and EC-5 containers and will modify the drop-test required in the original specification. It is estimated that production of the containers will resume within thirty days after the contractor receives the contract amendment. News of a self sealing rubber material has sparked some interest in its possible application herewith. An investigation of the item is intended during the next reporting period.

2056

#### HAND CRANK GENERATOR MINIATURIZATION PROGRAM

The development of a 12 pound hand crank generator (G-49) by the Signal Corps, Fort Monmouth, New Jersey, with

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[REDACTED] Chicago, Illinois, originally scheduled for completion during September 1956, is now expected in February 1957. The only major difficulty reported was that of reducing the noise generated by the gear train; all other requirements called for in the specification are expected to be met.

A bid of between ten and fifteen thousand dollars for the development of a special hand generator for the RS-1125X1A5A1 equipment was received by the [REDACTED] the prime contractor, from [REDACTED] Company. This development will be monitored under this project for possible application as a general purpose, light-weight, low power hand generator.

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#### REUSEABLE TAPE

A task outline for the development of a reuseable tape for use with the automatic tape printers has been prepared and a search for a suitable contractor is under way. The Dupont deNemours Company, Wilmington, Delaware, was visited in connection with the proposed development. (See Trip Report, dated 2 October 1956.) Though not interested in the development contract because they felt it was out of their line, they did suggest the use of "Mylar" polyester film since it has many of the required characteristics. Dupont is supplying, through the Agency Contacts Division, two rolls of Mylar tape cut to our dimensions for test with the printing equipment. This tape will be tested at the Research and Development Laboratory and the results used in support of the planned development.

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#### SPECIAL AGENT RADIO SETS, RS-11A, RS-11B, RS-11C

Contractual performance by [REDACTED] continues to be only borderline satisfactory and the past few months indicate

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[redacted]  
that the company is without the ability to recover from management changes, and the loss of engineering talent. It is also indicated that a dynamic effort to meet equipment specifications is not being made due to contractual funding. (The contractor has stated that he is already \$50,000 in the red on this fixed price contract.) Consequently, it is felt that the best interests of the Government will be served by contract termination. Research and Development Laboratory personnel are to consult with the Bureau of Standards engineers about a suitable dial tape material, the principal receiver requirement. Additional lesser reworking of the RS-11 series is required prior to production planning. See Trip Report dated 20 September 1956 by [redacted]

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[redacted]

See Status Report dated 1 October 1956, by [redacted]

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#### FACSIMILE CIPHERING DEVICES

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The [redacted] now expects to finish on 15 November 1956 the radiation suppression project on the Finch Intellofax Facsimile Equipment loaned to them by this Agency. The project originally was to have been completed by 1 August 1956.

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#### HIGH SPEED POINT-TO-POINT COMMUNICATIONS SET, ASF-4

Members of the Research and Development Laboratory have spent the past month at the plant of the contractor receiving instructions in the operation and maintenance of this equipment. Delivery of the refurbished prototype model is anticipated during the next period.

2095

#### TRANSISTOR RECEIVER, RR-11AA, RR-11BB

The laboratory evaluation of the receiver has been completed and deficiencies of the unit have been noted. A meeting with the contractor's representatives has been scheduled for early October, prior to final acceptance of these prototype units. In general the receiver appears to be a very well designed unit and has met with favorable response from those who have used it.

2096

#### AGENT EQUIPMENT POWER SOURCES

ASTIA and other reports are being procured for the contractor as requested. Contractual activity is presently centered on the development of a thermo-electric generator to provide a 25 watt output (Battery Charger). The first [redacted] quarterly report is in the mail.

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2097 **QUADRICODE COMMUNICATIONS SYSTEM**

The contractor is progressing on this project and the completion date has been extended to 1 July 1957 in order to enable the contractor to complete the prototype equipment.

2099 **HIGH SPEED AGENT-TO-SUB BASE COMMUNICATIONS SYSTEM, RS-13**

See Trip and Progress Report dated 4 October 1956 by

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The final engineering report on the study phase of this project has been evaluated, however, there are no funds available for financing the Phase 2 of this project. The Office of Communications has notified DD/P that the project is being suspended pending the availability of the developmental funds.

2104 **UNIVERSAL MODULAR SUB-ASSEMBLIES, TAILOR**

Work on the RF transmitter design specification is continuing.

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**SEMI-AUTOMATIC TWO-WAY AGENT STATION**

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The contractor failed to initiate any action directed towards the execution of [redacted], Task 1, during the first two months. The company has been requested to advise the Contracting Officer of the assignment of personnel and the proposed development schedule. The Contracting Officer has been advised of unsatisfactory performance.

2109 **AGENT ANTENNA DEVELOPMENT**

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See Trip Report, [redacted] Order 3, dated 24 September 1956, [redacted] Task Order 4, dated 20 September 1956, by [redacted]

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2109A **AGENT ANTENNA MANUAL**

Interviews with training officers and a search of the Agency library on this subject have been completed. A task outline has been written and is awaiting approval.

2110 **COMPONENT STUDIES**

The contractor is currently preparing his quarterly report. As a result of Trip Report of 30 July 1956, by [redacted]

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the laboratory purchased several double base diode units from [ ] and reports that they are markedly superior to conventional transistor oscillators for certain audio applications.

2111

#### MISSILE DATA COLLECTION SYSTEM

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See Trip and Progress Report dated 18 September 1956 by [ ]

2112

#### DZ LOCATION SYSTEM (ULTIMATE BEACON)

There has been no further activity on this project during this period.

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#### [ ] PROGRAMMER SYSTEM

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Progress of the [ ] programmer appears to be satisfactory. A visit to the contractor's plant is scheduled for the second week of October.

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#### ELINT COLLECTION SYSTEM TO REPLACE [ ], E/CS-3

A proposal has been requested from the contractor for the development of ten prototypes and subsequent to approval of those prototypes, production of 170 units.

#### SERVICES CONTRACTS:

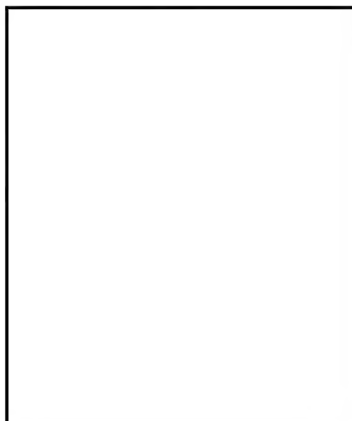
Thirteen work orders amounting to \$8944 have been issued since the beginning of FY 1957 in support of the activities of this office. Delivery has been made on three orders. The work still outstanding is being monitored.

## 2. ADMINISTRATIVE

TDY

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5-20 September

24 September

6-10 September

10-14 September

17 September 1956

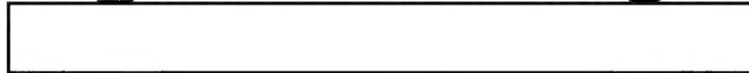
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PCS

Not Applicable.

EOD

Not Applicable.

RESIGNATIONS

Not Applicable.

TRANSFERS

Not Applicable

OTHER



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Chief, External Projects Section, R&D

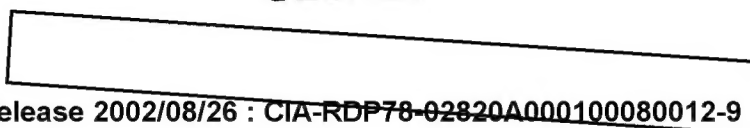
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Chief, Research & Development Branch, OC-E

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